

LAB 8

Observations

	Functions	Tolerance	No. of Iterations	Root
1	$83x + 11y - 4z = 95$ $7x + 52y + 13z = 104$ $3x + 8y + 29z = 71$	0.01	1	X=1.145 Y=1.846 Z=1.821
		0.001	5	X=1.058 Y=1.367 Z=1.962
		0.0001	9	X=1.058 Y=1.367 Z=1.962
2	$8x - 3y + 2z = 45$ $4x + 11y - z = 71$ $6x + 3y + 12z = 35$	0.01	2	X=7.528 Y=3.626 Z=-1.754
		0.001	6	X=7.400 Y=3.610 Z=-1.686
		0.0001	8	X=7.400 Y=3.610 Z=-1.686
3	$18x - 3y + z = 45$ $14x + 11y - 12z = 71$ $6x + 3y + 12z = 35$	0.01	1	X=5.625 Y=4.409 Z=-0.998
		0.001	3	X=7.423 Y=3.596 Z=-1.694
		0.0001	5	X=7.400 Y=3.610 Z=-1.686

Conclusion :